

# Converting Colors

XYZ(18.4830, 9.5401, 0.8673)

Have a look what the booklet for  
XYZ(18.4830, 9.5401, 0.8673)  
contains.

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# Color

**XYZ(18.3710, 9.4867,  
0.8629)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B20100
RGB	178, 1, 0
RGB Percent	70%, 0%, 0%
CMY	0.3020, 0.9960, 1.0000
CMYK	0.00, 0.99, 1.00, 0.30
HSL	0°, 100%, 35%
HSV	0°, 100%, 70%
XYZ	18.3710, 9.4867, 0.8629
YIQ	53.8090, 105.8130, 37.2130

# Conversions

## Conversions Part 2

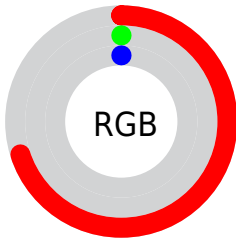
Format	Color
<a href="#">RYB</a>	<a href="#">178, 1, 0</a>
Decimal	<a href="#">11665664</a>
CIELab	<a href="#">36.90, 61.05, 51.29</a>
CIElCh	<a href="#">37, 79.735, 40.032</a>
Yxy	<a href="#">9.4867, 0.6396, 0.3303</a>
Android (android.graphics.Color)	<a href="#">4289855744 (0xFFB20100)</a>
YUV	<a href="#">53.8090, -26.5278, 108.9155</a>
Hunter-Lab	<a href="#">30.8005, 52.5658, 19.8993</a>

# Details

The XYZ color **18.3710, 9.4867, 0.8629** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **23.7522, 34.6469, 47.5549**, and the grayscale version is **3.5074, 3.6901, 4.0185**.

A 20% lighter version of the original color is **40.3125, 24.8684, 5.5811**, and **7.0702, 3.6448, 0.3309** is the 20% darker color. If you saturate the color by 10%, you get **18.3712, 9.4873, 0.8630**, and if you desaturate by 10%, it is **18.6959, 9.9646, 1.5018**.

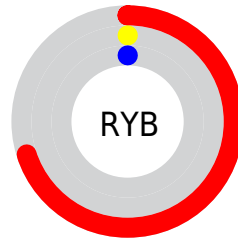
# Distribution



Red (70%)

Green (0%)

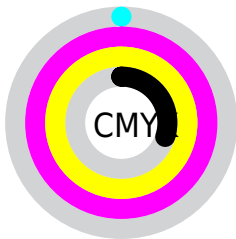
Blue (0%)



Red (70%)

Yellow (0%)

Blue (0%)

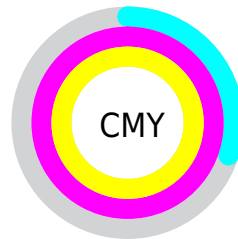


Cyan (0%)

Magenta (99%)

Yellow (100%)

Black (30%)



Cyan (30%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.3710, 9.4867, 0.8629 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 18.3710, 9.4867, 0.8629 by changing the saturation by 10% instead.




 18.3710, 9.4867,  
0.8629


 18.3710, 9.4867,  
0.8629


 235.9593,  
186.9683, 101.0762


 11.3180, 5.0600,  
0.0000


 40.1936, 24.8255,  
5.6077


 6.3500, 2.2825,  
0.0000


 55.6940, 36.5063,  
10.4787


 3.1017, 0.7644,  
0.0000

 74.7408, 51.3739,  
17.5745

 1.2078, 0.0000,  
0.0000

 97.6994, 69.8128,  
27.3138

 0.1125, 0.0000,  
0.0000


 124.9352, 92.2073,  
40.1151


 0.0000, 0.0000,  
0.0000


 156.8135,


118.9417, 56.3969


 193.6998,  
150.4006, 76.5777


 18.3710, 9.4867,  
0.8629


 18.3710, 9.4867,  
0.8629

 18.3712, 9.4873,  
0.8630

 18.6959, 9.9646,  
1.5018

 19.3162, 10.8775,  
2.7189

 20.3368, 12.3754,  
4.7337

 21.8095, 14.5339,  
7.6511

 23.7787, 17.4172,  
11.5602

■ 26.2834, 21.0822,  
16.5393

■ 29.3586, 25.5800,  
22.6590

■ 33.0363, 30.9573,  
29.9838

■ 37.3465, 37.2574,  
38.5733

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



21.9055, 9.4867, 6.2928



18.3710, 9.4867, 0.8629



12.6479, 9.4867, 0.0000

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



18.3710, 9.4867, 0.8629



2.7285, 9.4867, 3.5655



10.7668, 9.4867, 66.5519

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



18.3710, 9.4867, 0.8629



23.7522, 34.6469, 47.5549

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



6.1571, 9.4867, 62.4351



18.3710, 9.4867, 0.8629



2.5418, 9.4867, 15.8030

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



18.3710, 9.4867, 0.8629



4.1987, 9.4867, 0.1801



3.5405, 9.4867, 39.3854



16.5714, 9.4867, 48.0503



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



18.3710, 9.4867, 0.8629



9.0116, 9.4867, 0.0000



3.5405, 9.4867, 39.3854



9.0221, 9.4867, 67.9962

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



18.3712, 9.4873, 0.8630



52.9236, 45.9250, 40.4605



26.3959, 12.6793, 43.1754



11.1865, 9.3869, 7.8918



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.3712, 9.4873, 0.8630



33.3095, 17.1933, 1.5630



21.9325, 16.6098, 2.0501



8.5002, 8.5129, 8.8477



13.1465, 6.7915, 0.6180



0.4149, 0.2163, 0.0199



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



23.7522, 34.6469, 47.5549



43.0669, 62.8177, 86.2363



11.6083, 10.3592, 43.5069



8.7384, 9.6230, 10.9032



16.9967, 24.7939, 34.0269



0.5361, 0.7828, 1.0711



# Previews

## White Background



This preview shows how the XYZ color 18.3710, 9.4867, 0.8629 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

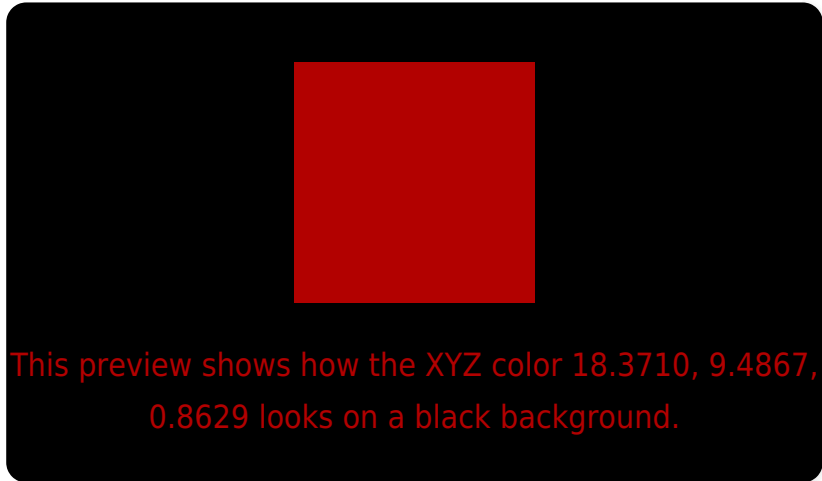
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 18.3710, 9.4867, 0.8629**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.3710, 9.4867, 0.8629.



This preview shows how white text looks on a background with the XYZ color 18.3710, 9.4867,

0.8629.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

18.3710, 9.4867, 0.8629

### Protanopia

9.1776, 10.1409, 2.2843

### Deuteranopia

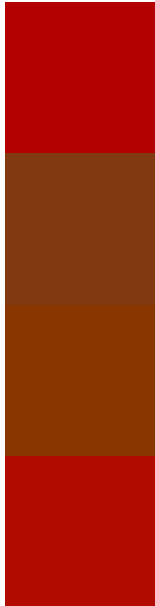
10.0586, 10.0077, 1.4015



## Tritanopia

18.3319, 9.7480, 0.9154

# Trichromacy



## Original Color

18.3710, 9.4867, 0.8629

## Protanomaly

10.6525, 7.7277, 1.3821

## Deuteranomaly

11.6357, 7.9567, 0.9225

## Tritanomaly

18.2511, 9.5865, 0.8884

# Monochromacy



## Original Color

18.3710, 9.4867, 0.8629

## Achromatopsia

3.5063, 3.6889, 4.0173

## Achromatomaly

6.0354, 3.9702, 1.9616

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.3710, 9.4867, 0.8629 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(178, 1, 0)` looks like.

```
.text, #text, p{  
    color:rgb(178, 1, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(178, 1, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 1, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.3710, 9.4867, 0.8629 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(178, 1, 0) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(178, 1, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(178, 1, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 1, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(178, 1, 0); box-shadow:4px  
4px 4px 4px rgb(178, 1, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.3710, 9.4867, 0.8629 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 1, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(178, 1,  
0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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